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(54) **DEVICE AND METHOD FOR DETECTING MOTION VECTOR, AND MOTION VECTOR DETECTING PROGRAM RECORDING MEDIUM**

vector 10Cbp and block 10Ab.

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(57) Abstract:

PROBLEM TO BE SOLVED: To detect optimum motion vector at high speed with less throughput than here to fore by making good use of a motion vector which is already found, predicting the motion vector to be found, and reducing the search range of motion vectors.

SOLUTION: A motion vector acquiring means 115 for calculation obtains a motion vector 10Vpi[3] with respect to an I frame in a block 10Ap[3], indicating a similar area 10Bpi[3] close to the position of a similar area 10Bpi that a motion vector 10Vbi for the I frame indicates in a block 10Ab. A candidate vector calculating means 111 finds a candidate vector 10Cbp, by using the motion vector 10Vpi[3] and motion vector 10Vbi. A motion vector detecting means 112 finds the best motion vector for a P frame of the block 10Ab by using the candidate

